The Condor 96:1128–1137
© The Cooper Ornithological Society 1994

INDEX TO VOLUME 96

A

Able, Kenneth P., A review of *Bird Migration*, by Thomas Alerstam, 246
Abundance, 684–691
Accipiter striatus, 455–467
Acclimatization, 638–646
Acoustic Adaptation Hypothesis, 1084–1088
Activity budgets, 178–189
Adams, Jane S., Richard L. Knight, Lowell C. McEwen, and T. Luke George, Survival and growth of nestling Vesper Sparrows exposed to experimental food reductions, 739–748
Adaptation, 1103–1106
Aegolius funereus, 555–559
Aerial display, 1088–1091
Age, 809–812
  determination, 203–207, 555–559, 959–972
  -dimorphism, 433–446
  effects, 987–993
  -related survival, 600–605
  -specific reproductive success, 935–948
  -specific survival, 503–511
Agelaius phoeniceus, 1115–1116, 1117–1118
Aggression, 590–599
Akepa, see *Loxops coccineus*
Akiapolaau, see *Hemignathus munroi*
Alaska, 46–51
Albatross, Black-footed, see *Diomedea nigripes*
  Laysan, see *Diomedea immutabilis*
Alisauskas, Ray T., and C. Davison Ankney, Costs and rates of egg formation in Ruddy Ducks, 11–18
Alisauskas, Ray T., and C. Davison Ankney, Nutrition of breeding female Ruddy Ducks: the role of nutrient reserves, 878–897
Alkalinity, 411–421
Amakihi, Common, see *Hemignathus virens*
Anas acuta, 422–432
  bahamensis, 400–410
  platyrhynchos, 36–45, 295–299, 411–421
  rubripes, 411–421
Andersson, Staffan, Costs of sexual advertising in the lekking Jackson's Widowbird, 1–10
Ankney, C. Davison, see Alisauskas, Ray T.
  see Merendino, M. Todd
Annett, Cynthia, see Pierotti, Raymond
Annual cycle, 257–279
  variation, 368–380, 381–399
Apapane, see *Himatione sanguinea*
Arcese, Peter, see Smith, James N. M.
Archilochus alexandri, 141–150, 1064–1075, 1088–1091
Arctic, 257–279, 898–908
Area-restricted searching, 812–816
Argentina, 994–1002, 1084–1088
Arid habitats, 354–367
Arizona, 141–150, 845–862
Arroyo-Cabrales, Joaquin, see Steadman, David W.
Aspen forest, 455–467
Austin, Jane E., and Jerome R. Serie, Variation in body mass of wild Canvasback and Redhead ducklings, 909–915
Australia, 211–214
Avocet, American, see *Recurvirostra americana*
Aythya americana, 909–915
  valisineria, 909–915

B

Baptista, Luis F., and Sandra L. L. Gaunt, Advances in studies of avian sound communication, 817–830
Barlow, Jon C., see Murray, Brent W.
Beech, Robin N., see Murray, Brent W.
Behavior, 559–565, 672–683
Belthoff, James R., Alfred M. Dufty, Jr., and Sidney A. Gauthreaux, Jr., Plumage variation, plasma steroids and social dominance in male House Finches, 614–625
Bird, David M., see Negro, Juan J.
Birkhead, T. R., see Sheldon, B. C.
Biswell, Brian L., see Sovern, Stan G.
Blackbird, Red-winged, see *Agelaius phoeniceus*
  Yellow-headed, see *Xanthocephalus xanthocephalus*
Blake, John G., Joann M. Hanowski, Gerald J. Niemi, and Patrick T. Collins, Annual variation in bird populations of mixed conifer-northern hardwood forests, 381–399
Blake, John G., see Loiselle, Bette A.
Bleier, William J., see Twedt, Daniel J.
Blood, 119–126
Boag, Peter T., see Otter, Ken
Body mass, 909–915
Body size, 805–809
Boe, Janet S., Nest site selection by Eared Grebes in Minnesota, 19–35
Boersma, P. Dee, see Yorio, Pablo
Boettcher, Ruth, Susan M. Haig, and William C. Bridges, Jr., Behavioral patterns and nearest neighbor distances among nonbreeding American Avocets, 973–986
Boobie, Masked, see *Sula dactylatra*
Boobies, 331–340
Books in ornithology, 250–252, 573, 840–841, 1123
Brawn, Jeffrey D., A review of *Biogeography and Ecology of Forest Bird Communities*, edited by A. Keast, 1121–1122
Brazil, 559–565
Breeding, 151–161, 503–511, 1030–1036
  age, 468–484
  bird populations, 381–399
  density, 812–816
  success, 468–484
  synchrony, 722–733
Breitwisch, Randall, see Filliater, Tamatha S.
Bridges, Jr., William C., see Boettcher, Ruth
Brigham, R. Mark, and Paul Trayhurn, Brown fat in Birds? A test for the mammalian bat-specific

The Condor 96:1128–1137
© The Cooper Ornithological Society 1994

INDEX TO VOLUME 96

A

Able, Kenneth P., A review of *Bird Migration*, by Thomas Alerstam, 246
Abundance, 684–691
Accipiter striatus, 455–467
Acclimatization, 638–646
Acoustic Adaptation Hypothesis, 1084–1088
Activity budgets, 178–189
Adams, Jane S., Richard L. Knight, Lowell C. McEwen, and T. Luke George, Survival and growth of nestling Vesper Sparrows exposed to experimental food reductions, 739–748
Adaptation, 1103–1106
Aegolius funereus, 555–559
Aerial display, 1088–1091
Age, 809–812
  determination, 203–207, 555–559, 959–972
  -dimorphism, 433–446
  effects, 987–993
  -related survival, 600–605
  -specific reproductive success, 935–948
  -specific survival, 503–511
Agelaius phoeniceus, 1115–1116, 1117–1118
Aggression, 590–599
Akepa, see *Loxops coccineus*
Akiapolaau, see *Hemignathus munroi*
Alaska, 46–51
Albatross, Black-footed, see *Diomedea nigripes*
  Laysan, see *Diomedea immutabilis*
Alisauskas, Ray T., and C. Davison Ankney, Costs and rates of egg formation in Ruddy Ducks, 11–18
Alisauskas, Ray T., and C. Davison Ankney, Nutrition of breeding female Ruddy Ducks: the role of nutrient reserves, 878–897
Alkalinity, 411–421
Amakihi, Common, see *Hemignathus virens*
Anas acuta, 422–432
  bahamensis, 400–410
  platyrhynchos, 36–45, 295–299, 411–421
  rubripes, 411–421
Andersson, Staffan, Costs of sexual advertising in the lekking Jackson's Widowbird, 1–10
Ankney, C. Davison, see Alisauskas, Ray T.
  see Merendino, M. Todd
Annett, Cynthia, see Pierotti, Raymond
Annual cycle, 257–279
  variation, 368–380, 381–399
Apapane, see *Himatione sanguinea*
Arcese, Peter, see Smith, James N. M.
Archilochus alexandri, 141–150, 1064–1075, 1088–1091
Arctic, 257–279, 898–908
Area-restricted searching, 812–816
Argentina, 994–1002, 1084–1088
Arid habitats, 354–367
Arizona, 141–150, 845–862
Arroyo-Cabrales, Joaquin, see Steadman, David W.
Aspen forest, 455–467
Austin, Jane E., and Jerome R. Serie, Variation in body mass of wild Canvasback and Redhead ducklings, 909–915
Australia, 211–214
Avocet, American, see *Recurvirostra americana*
Aythya americana, 909–915
  valisineria, 909–915

B

Baptista, Luis F., and Sandra L. L. Gaunt, Advances in studies of avian sound communication, 817–830
Barlow, Jon C., see Murray, Brent W.
Beech, Robin N., see Murray, Brent W.
Behavior, 559–565, 672–683
Belthoff, James R., Alfred M. Dufty, Jr., and Sidney A. Gauthreaux, Jr., Plumage variation, plasma steroids and social dominance in male House Finches, 614–625
Bird, David M., see Negro, Juan J.
Birkhead, T. R., see Sheldon, B. C.
Biswell, Brian L., see Sovern, Stan G.
Blackbird, Red-winged, see *Agelaius phoeniceus*
  Yellow-headed, see *Xanthocephalus xanthocephalus*
Blake, John G., Joann M. Hanowski, Gerald J. Niemi, and Patrick T. Collins, Annual variation in bird populations of mixed conifer-northern hardwood forests, 381–399
Blake, John G., see Loiselle, Bette A.
Bleier, William J., see Twedt, Daniel J.
Blood, 119–126
Boag, Peter T., see Otter, Ken
Body mass, 909–915
Body size, 805–809
Boe, Janet S., Nest site selection by Eared Grebes in Minnesota, 19–35
Boersma, P. Dee, see Yorio, Pablo
Boettcher, Ruth, Susan M. Haig, and William C. Bridges, Jr., Behavioral patterns and nearest neighbor distances among nonbreeding American Avocets, 973–986
Boobie, Masked, see *Sula dactylatra*
Boobies, 331–340
Books in ornithology, 250–252, 573, 840–841, 1123
Brawn, Jeffrey D., A review of *Biogeography and Ecology of Forest Bird Communities*, edited by A. Keast, 1121–1122
Brazil, 559–565
Breeding, 151–161, 503–511, 1030–1036
  age, 468–484
  bird populations, 381–399
  density, 812–816
  success, 468–484
  synchrony, 722–733
Breitwisch, Randall, see Filliater, Tamatha S.
Bridges, Jr., William C., see Boettcher, Ruth
Brigham, R. Mark, and Paul Trayhurn, Brown fat in Birds? A test for the mammalian bat-specific

mitochondrial uncoupling protein in Common Poorwills, 208–211
Brood, 909–915
Brood parasitism, 162–169, 654–671, 716–721, 794–798, 802–805, 916–934, 799–801, 1115–1116, 1117–1118
Brooke, M. De L., see Vickery, J. A.
Broughton, Jack M., Size of the bursa of Fabricius in relation to gonad size and age in Laysan and Black-footed Albatrosses, 203–207
Brown adipose tissue, 208–211
Brown, Jerram L., Historical patterns in the study of avian social behavior, 232–243
Buckland, S. T., see Harris, M. P.
Bunting, Orange-breasted, see *Passerina leclancherii*
Burnell, Kris, and Stephen I. Rothstein, Variation in the structure of female Brown-headed Cowbird vocalizations and its relation to vocal function and development, 703–715
Bursa of Fabricius, 203–207
Buteo jamaicensis, 52–57
swainsoni, 52–57

C

Calcium, 411–421
Calidris canutus, 257–279
fuscicollis, 949–958
pusilla, 949–958
California, 36–45, 178–189, 197–200
Calls, 70–82
Campylorhynchus nuchalis, 654–671
Canada, 935–948
Canvasback, see *Aythya valisineria*
Caprimulgus anthonyi, 224–228
Caracaras, 127–140
Carbaryl, 739–748
Cardiff, Steven W., see Robbins, Mark B.
Cardinal, Northern, see *Cardinalis cardinalis*
Cardinalis cardinalis, 761–768, 769–782, 1055–1063
Carlsson, B.-G., and B. Hörnfeldt, Determination of nestling age and laying date in Tengmalm's Owl: use of wing length and body mass, 555–559
Carpodacus mexicanus, 614–625
Catoptrophorus semipalmatus, 734–738
Ceballos, Olga, see Donázar, José A.
Cézilly, Frank, Christophe Tourenq, and Alan Johnson, Variation in parental care with offspring age in the Greater Flamingo, 809–812
Chaffinch, see *Fringilla coelebs*
Chan, K., Migratory fattening in an Australian intracontinental migrant, 211–214
Charadriidae, 1109–1110
Charadrius alexandrinus, 1106–1109
Chase duration, 331–340
Chastin, Alain, see Negro, Juan J.
Chat, Yellow-breasted, see *Icteria virens*
Chavez-Ramirez, Felipe, Dale E. Gawlik, Felipe G. Prieto, and R. Douglas Slack, Effects of habitat structure on patch use by Loggerhead Shrikes wintering in a natural grassland, 228–231
Chen caerulescens, 898–908
canagica, 46–51
Chickadee, Black-capped, see *Parus atricapillus*
Chestnut-backed, see *Parus rufescens*
Mexican, see *Parus sclateri*
Christie, Miguel I., see Yom-Tov, Yoram
Clamator glandarius, 802–805
Clemmons, Janine R., Multiple cases of polygyny in the Black-capped Chickadee: a possible advantage to the primary female, 1113–1114
Climate, 257–279, 341–353
Climbing adaptations, 1103–1106
Clutch formation, 422–432
size, 170–177, 422–432, 878–897
Cold tolerance, 638–646
-induced thermogenesis, 280–294
Collins, Patrick T., see Blake, John G.
Colombia, 1091–1094
Colonial nesting, 722–733, 794–798
Colorado, 455–467
Competition, 52–57
Condor, The, 831–832
Conifer forest, 455–467
Conley, Timothy M., see Powers, Donald R.
Conservation, 228–231, 692–702
Conway, Courtney J., William R. Eddleman, and Kenneth L. Simpson, Evaluation of lipid indices of the Wood Thrush, 783–790
Conway, Courtney J., William R. Eddleman, and Kenneth L. Simpson, Seasonal changes in fatty acid composition of Wood Thrush, 791–794
Coody, Chris, see Marzluff, John M.
Cooke, Fred, A review of *Genetics and Evolution of the Domestic Fowl,* by Lewis Stevens, 246–247
Cooper Ornithological Society, 831–832
Cooper, Sheldon J., and David L. Swanson, Seasonal acclimatization of thermoregulation in the Black-capped Chickadee, 638–646
Cooperative breeding, 654–671
Coot, American, see *Fulica americana*
Copulation, 654–671
Corticosterone, 614–625
Corvus corax, 545–551
Costa Rica, 341–353, 368–380, 722–733, 863–877
Courtship, 654–671, 1088–1091
Cowbird, Brown-headed, see *Molothrus ater*
Giant, see *Scaphidura oryzivora*
Shiny, see *Molothrus bonariensis*
Crane, Sandhill, see *Grus canadensis*
Creeper, Hawaii, see *Oreomystis mana*
Cuckoo, Great Spotted, see *Clamator glandarius*
Curlew, Bristle-thighed, see *Numenius tahitiensis*
Cyclarhis, 1037–1054
Cypseloides niger, 1091–1094
Cytochrome *b,* 1037–1054

D

Dahlsten, D. L., see Kleintjes, P. K.
Daily energy expenditure, 331–340
Dawson, William R., see Mathiu, P. Mbaabu
de Forest, Leah N., see Gaston, Anthony J.
Delayed plumage maturation, 606–613, 626–630
Demography, 503–511, 935–948
Dendrocolaptinae, 1103–1106
Dendroica chrysoparia, 684–691
Density, 503–511
Desrochers, André, see Lindholm, Anna
Determinate layer, 1109–1110
Development of homeothermy, 280–294

Dialect, 190–196, 1084–1088
Diet, 98–104, 354–367, 368–380, 455–467, 647–653
Diomedea immutabilis, 203–207
nigripes, 203–207
Dispersal, 197–200, 545–551
Displays, 222–224, 1088–1091
Distraction displays, 222–224
Distribution, 83–97, 1091–1094
Diving depth, 1111–1113
DNA fingerprinting, 1055–1063
Donaldson, Garry, see Gaston, Anthony J.
Donázar, José A., Olga Ceballos, Alejandro Travaini, Alejandro Rodriguez, Martin Funes, and Fernando Hiraldo, Breeding performance in relation to nest-site substratum in a Buff-necked Ibis (*Theristicus caudatus*) population in Patagonia, 994–1002
Doubly labeled water, 141–150
Drepanidinae, 151–161
du Plessis, Morné A., Wesley W. Weathers, and Walter D. Koenig, Energetic benefits of communal roosting by Acorn Woodpeckers during the nonbreeding season, 631–637
Duck, Black, see *Anas rubripes*
Pekin, see *Anas platyrhynchos*
Ruddy, see *Oxyura jamaicensis*
Duckling, 909–915
Dufour, Kevin W., see Yezerinac, Stephen M.
Dufty, Jr., Alfred M., Rejection of foreign eggs by Yellow-headed Blackbirds, 799–801
Dufty, Jr., Alfred M., see Belthoff, James R.
Duncan, Charles D., see Vidal, Rosa María

E

Eagle, White-tailed Sea, see *Haliaeetus albicilla*
Eddleman, William R., see Conway, Courtney J.
Egg composition, 11–18
formation, 11–18
rejection, 799–801
Elanus caeruleus, 197–200
Emetic, 354–367
Endangered species, 512–544, 684–691, 845–862
Endocrinology, 614–625, 626–630
Energetics, 11–18, 141–150, 257–279, 331–340, 631–637, 638–646, 1064–1075
Epiphytes, 863–877
Erythropoiesis, 119–126
Esler, Daniel, and James B. Grand, The role of nutrient reserves for clutch formation by Northern Pintails in Alaska, 422–432
Euplectes jacksoni, 1–10
Evans, Thomas J., and Stanley W. Harris, Status and habitat use by American Avocets wintering at Humboldt Bay, California, 178–189
Evaporative cooling, 280–294
Ewert, David N., and Donald E. Kroodsma, Song sharing and repertoires among migratory and resident Rufous-sided Towhees, 190–196
Extinct species, 577–589
Extirpation causes, 845–862
Extra-pair copulation, 218–222, 400–410
fertilization, 218–222, 400–410, 1055–1063
paternity, 218–222

F

Falco mexicanus, 447–454
sparverius, 749–760
Falcon, Prairie, see *Falco mexicanus*
Falconidae, 127–140
Fancy, Steven G., see Ralph, C. John
Fat, 783–790, 791–794, 878–897
brown, 208–211
scoring, 783–790
Fattening, migratory, 211–214
Fatty acid composition, 791–794
Feather, 214–217
wear, 959–972
Fecundity, 878–897
Feeding behavior, 1111–1113
ecology, 455–467
guilds, 58–69
Female choice, 1113–1114
condition, 1076–1083
Female-defense polygyny, 722–733
Fertility, 411–421
Ficken, Millicent Sigler, Elizabeth D. Hailman, and Jack P. Hailman, The chick-a-dee call system of the Mexican Chickadee, 70–82
Ficken, Millicent Sigler, see Pytte, Carolyn
Field metabolic rate, 141–150
Filliater, Tamatha S., Randall Breitwisch, and Paul M. Nealen, Predation on Northern Cardinal nests: does choice of nest site matter?, 761–768
Finch, House, see *Carpodacus mexicanus*
Finck, Elmer J., see Stapanian, Martin A.
Fiske, Peder, see Sæther, Stein Are
Flamingo, Greater, see *Phoenicopterus ruber*
Flight range, 211–214, 316–330, 949–958
Flocking, 70–82, 257–279, 545–551
Flycatcher, Ochre-bellied, see *Mionectes oleagineus*
Follicle history, 214–217
Food consumption, 141–150
habits, 455–467
reduction, 739–748
resource limitation, 1064–1075
supply, 555–559
Foraging, 46–51, 200–202, 447–454, 493–502, 684–691, 734–738
behavior, 433–446, 647–653
ecology, 863–877
Forest, tropical deciduous, 105–118
Forsman, Eric D., see Sovern, Stan G.
Fregata minor, 331–340, 987–993
Frigatebird, Great, see *Fregata minor*
Fringilla coelebs, 1099–1103
Frith, Clifford B., Adaptive significance of tracheal elongation in manucodes (Paradisaeidae), 552–555
Frugivory, 368–380, 494–502
Fruit, 494–502
Fulica americana, 805–809
Funes, Martin, see Donázar, José A.
Furnariidae, 559–565

G

Gallinago media, 959–972
Gaston, Anthony J., Leah N. de Forest, Garry Donaldson, and David G. Noble, Population param-

eters of Thick-billed Murres at Coats Island, Northwest Territories, Canada, 935–948
Gaunt, Sandra L. L., see Baptista, Luis F.
Gauthreaux, Jr., Sidney A., see Belthoff, James R.
Gavia pacifica, 300–315
Gawlik, Dale E., see Chavez-Ramirez, Felipe
Geographic variation, 1030–1036
George, T. Luke, see Adams, Jane S.
Gilardi, James D., Great Frigatebird kleptoparasitism: sex-specific host choice and age-related proficiency, 987–993
Gill, Frank B., A review of *Handbook of the Birds of the World, Volume 1 (Ostrich to Ducks),* edited by J. del Hoyo, A. Elliott, and J. Sargatal, 566–567
Gonad size, 203–207
Goose, Emperor, see *Chen canagica*
Snow, see *Chen caerulescens*
Grand, James B., see Esler, Daniel
Grasshoppers, 739–748
Great Salt Lake, 1106–1109
Grebe, Eared, see *Podiceps nigricollis*
Gregariousness, 545–551
Griffiths, Carole S., Syringeal morphology and the phylogeny of the Falconidae, 127–140
Grosbeak, Black-headed, see *Pheucticus melanocephalus*
Ground nests, 1009–1019
Growth rate, 739–748, 749–760, 805–809, 898–908
Grubb, Jr., Thomas C., and Vladimir V. Pravosudov, Ptilochronology: follicle history fails to influence growth of an induced feather, 214–217
Grus canadensis, 222–224
Grzybowski, Joseph A., David J. Tazik, and Gary D. Schnell, Regional analysis of Black-capped Vireo breeding habitats, 512–544
Gauthier, Gilles, see Lindholm, Anna
Guilds, 58–69
Gull, Western, see *Larus occidentalis*
Gut ion concentration, 295–299
Gut luminal marker, 295–299
Guzman, A. Fabiola, see Steadman, David W.
Gyalophylax, 559–565

H

Habitat monitoring, 214–217
selection, 19–35, 52–57, 368–380, 512–544
structure, 228–231
use, 178–189, 228–231, 257–279
Hahn, Thomas P., A review of *Evolutionary Differentiation in Morphology, Vocalizations, and Allozymes Among Nomadic Sibling Species in the North American Red Crossbill (*Loxia curvirostra*) Complex,* by J. G. Groth, 835–837
Haig, Susan M., see Boettcher, Ruth
Hailman, Elizabeth D., see Ficken, Millicent Sigler
Hailman, Jack P., see Ficken, Millicent Sigler
Haliaeetus albicilla, 1003–1008
Hamilton-Orians Hypothesis, 1115–1116, 1117–1118
Hanowski, Joann M., see Blake, John G.
Harris, M. P., S. T. Buckland, S. M. Russell, and S. Wanless, Year- and age-related variation in the survival of adult European Shags over a 24-year period, 600–605
Harris, Stanley W., see Evans, Thomas J.
Hatch date, 898–908
Hatchlings, 280–294
Hawaii, 151–161, 503–511
Hawk, Red-tailed, see *Buteo jamaicensis*
Hawk, Sharp-shinned, see *Accipiter striatus*
Swainson's, see *Buteo swainsoni*
Hayes, Floyd E., Paul A. Scharf, and Robert S. Ridgely, Austral bird migrants in Paraguay, 83–97
Heath, Melanie F., see Long, Adrian J.
Heinrich, Bernd, Delia Kaye, Ted Knight, and Kristin Schaumburg, Dispersal and association among Common Ravens, 545–551
Helping behavior, 1095–1099
Hematocrit, 119–126
Hematology, 119–126, 909–915
Hemignathus munroi, 151–161
virens, 151–161
Henderson Island, 331–340
Heterochrony, 433–446
Hierarchical habitat analysis, 1009–1019
High altitude, 119–126
Hill, Geoffrey E., Testis mass and subadult plumage in Black-headed Grosbeaks, 626–630
Himatione sanguinea, 151–161
Hindlimb muscles, 1103–1106
Hiraldo, Fernando, see Donázar, José A.
Historical biogeography, 577–589
perspectives, 232–243, 817–830, 831–832
status, 178–189
Hoffman, Richard W., see Joy, Suzanne M.
Home range, 447–454
Homeothermy, 280–294
Hormones, 614–625, 626–630
Hörnfeldt, B., see Carlsson, B.-G.
Host-brood parasite interactions, 916–934
Hughes, Maryanne R., and Lethika Raveendran, Ion and luminal marker concentrations in the gut of saline-acclimated ducks, 295–299
Huin, N., Diving depths of White-chinned Petrels, 1111–1113
Humboldt Bay, 178–189
Hummingbird, Black-chinned, see *Archilochus alexandri*
Blue-throated, see *Lampornis clemenciae*
Hummingbirds, 141–150, 1088–1091
Humphrey-Parkes System, 769–782
Hutto, Richard L., The composition and social organization of mixed-species flocks in a tropical deciduous forest in western Mexico, 105–118
Hylocichla mustelina, 783–790, 791–794

I

Ibis, Buff-necked, see *Theristicus caudatus*
Icteria virens, 769–782
Idaho, 447–454
Iglesias, Gustavo J., see Yom-Tov, Yoram
Iiwi, see *Vestiara coccinea*
Incubation, 1076–1083
Inter-specific territoriality, 52–57
Intertidal habitats, 46–51, 178–189
Intestine, 295–299
Irruptive dispersal, 197–200
Islands, 197–200

J

Janes, Stewart W., Partial loss of Red-tailed Hawk territories to Swainson's Hawks: relations to habitat, 52–57
Japan, 1003–1008
Jehl, Joseph R., Jr., and Ned K. Johnson, A review of *The Birds of North America: Life Histories for the 21st Century,* edited by A. Poole, P. Stettenheim, and F. Gill, Volume 1, Nos. 1–40, 833–835
Johnson, Alan, see Cézilly, Frank
Johnson, Eileen, see Steadman, David W.
Johnson, Kristine, A review of *Sperm Competition in Birds, Evolutionary Causes and Consequences,* by T. R. Birkhead and A. P. Møller, 244–246
Johnson, Ned K., see Jehl, Joseph R., Jr.
Johnson, Terry B., see Snyder, Noel F. R.
Joy, Suzanne M., Richard T. Reynolds, Richard L. Knight, and Richard W. Hoffman, Feeding ecology of Sharp-shinned Hawks nesting in deciduous and coniferous forests in Colorado, 455–467

K

Kålås, John Atle, see Sæther, Stein Are
Kansas, 58–69
Kaye, Delia, see Heinrich, Bernd
Kestrel, American, see *Falco sparverius*
Kite, Black-shouldered, see *Elanus caeruleus*
Klatt, Paul H., and Gary Ritchison, The effect of mate removal on the vocal behavior and movement patterns of male and female Eastern Screech-Owls, 485–493
Klatt, Paul H., see Ritchison, Gary
Kleintjes, P. K., and D. L. Dahlsten, Foraging behavior and nestling diet of Chestnut-backed Chickadees in Monterey pine, 647–653
Kleptoparasitism, 331–340, 987–993
Knight, Richard L., see Adams, Jane S.
Knight, Richard L., see Joy, Suzanne M.
Knight, Ted, see Heinrich, Bernd
Knopf, Fritz L., see Skagen, Susan K.
Knot, Red, see *Calidris canutus*
Koenig, Susan E., see Snyder, Noel F. R.
Koenig, Walter D., see du Plessis, Morné A.
Koschmann, James, see Snyder, Noel F. R.
Kroodsma, Donald E., see Ewert, David N.

L

Lampornis clemer ciae, 141–150, 1064–1075
Lanius ludovicianus, 228–231
Larus occidentalis, 590–599
Lawton, Marcy F., A review of *The Pinyon Jay,* by J. M. Marzluff and R. P. Balda, 838–839
Laying date, 555–559
  rates, 11–18
Laysan Island, 316–330
Lefebvre, Gaëtan, see Poulin, Brigitte
Lehman, Paul E., see Russell, Robert W.
Lek, 1–10, 672–683, 959–972
Lepidothrix serena, 692–702
Lepidothrix suavissima, 692–702
Leu, Matthias, see Thompson, Christopher W.
Life history, 626–630, 769–782
Lindera benzoin, 791–794
Lindholm, Anna, Gilles Gauthier, and André Desrochers, Effect of hatch date and food supply on gosling growth in arctic-nesting Greater Snow Geese, 898–908
Linz, George M., see Twedt, Daniel J.
Lipid, 211–214, 783–790, 791–794, 949–958
Logistic model, 749–760
Loiselle, Bette A., and John G. Blake, Annual variation in birds and plants of a tropical second-growth woodland, 368–380
Long, Adrian J., and Melanie F. Heath, Nesting ecology and helping behavior in the Azure-rumped Tanager in Mexico, 1095–1099
Loon, Pacific, see *Gavia pacifica*
Loxops coccineus, 151–161
Lyon, Bruce E., A technique for measuring precocial chicks from photographs, 805–809

M

Macías-Caballero, Claudia, see Vidal, Rosa María
Magpie, Black-billed, see *Pica pica*
Maintenance activities, 973–986
  metabolism, 257–279
Mallard, see *Anas platyrhynchos*
Manakin, Tepui, see *Lepidothrix suavissima*
  White-fronted, see *Lepidothrix serena*
Mangroves, 354–367
Manucodes, see *Manucodia*
Manucodia, 552–555
Marks, Jeffrey S., and Roland L. Redmond, Migration of Bristle-thighed Curlews on Laysan Island: timing, behavior and estimated flight range, 316–330
Marshbird, Brown-and-Yellow, see *Pseudoleistes virescens*
Marti, Carl D., Barn Owl reproduction: patterns and variation near the limit of the species' distribution, 468–484
Martinez, Juan Gabriel, see Soler, Manuel
Marzluff, John M., Mark S. Vekasy, and Chris Coody, Comparative accuracy of aerial and ground telemetry locations of foraging raptors, 447–454
Mass loss, 1–10
Mate choice, 606–613
  guarding, 1055–1063
  removal, 485–493
Mathiu, P. Mbaabu, William R. Dawson, and G. Causey Whittow, Thermal responses of late embryos and hatchlings of the Sooty Tern, 280–294
Maximal thermogenic capacity, 638–646
McCallum, D. Archibald, A review of *The Black-capped Chickadee. Behavioral Ecology and Natural History,* by Susan M. Smith, 247–249
McDonald, Mara A., and Michael H. Smith, Behavioral and morphological correlates of heterochrony in Hispaniolan Palm-Tanagers, 433–446
McEwen, Lowell C., see Adams, Jane S.
McGillivray, W. Bruce, see Murray, Brent W.
McKee, Todd, see Powers, Donald R.
McLandress, M. Robert, see Yarris, Gregory S.
McNeil, Raymond, see Poulin, Brigitte
McNeil, Raymond, see Rompré, Ghislain
Megaxenops, 559–565
Melanerpes formicivorus, 631–637
Melospiza melodia, 916–934
Merendino, M. Todd, and C. Davison Ankney, Habitat

use by Mallards and American Black Ducks breeding in central Ontario, 411–421
Mermoz, Myriam E., and Juan C. Reboreda, Brood parasitism of the Shiny Cowbird, *Molothrus bonariensis*, on the Brown-and-Yellow Marshbird, *Pseudoleistes virescens*, 716–721
Metabolic rate, 257–279, 638–646
Metabolism, maintenance, 257–279
Mexico, 105–118, 577–589, 684–691, 1095–1099
Microhabitat, 257–279
Migrants, 381–399, 684–691
Migration, 36–45, 46–51, 83–97, 105–118, 119–126, 190–196, 197–200, 257–279, 300–315, 316–330, 791–794, 949–958, 1020–1029, 1091–1094
  austral, 83–97
  autumnal, 1020–1029
  departure, 1020–1029
  molt, 36–45
  Neotropical, 105–118
  transoceanic, 316–330
Migratory fattening, 211–214
Mionectes oleagineus, 672–683
Mitochondrial DNA, 1037–1054
Mixed reproductive strategy, 400–410
Mixed-species flock, 105–118, 684–691
Mobbing, 70–82
Molothrus ater, 162–169, 703–715, 799–801, 916–934
  bonariensis, 716–721
Molt, 36–45, 119–126, 151–161, 769–782, 959–972
  migration, 36–45
Monterey pine, 647–653
Morphology, 127–140, 433–446, 959–972, 1030–1036
Morphology, syringeal, 692–702
Morton, Martin L., Hematrocrits in montane sparrows in relation to reproductive schedule, 119–126
Morton, Martin L., and Maria E. Pereyra, Autumnal migration departure schedules in Mountain White-crowned Sparrows, 1020–1029
Movement patterns, 485–493
Murray, Brent W., W. Bruce McGillivray, Jon C. Barlow, Robin N. Beech, and Curtis Strobeck, The use of cytochrome *b* sequence variation in estimation of phylogeny in the Vireonidae, 1037–1054
Murre, Thick-billed, see *Uria lomvia*
Mutualism, 794–798
Myadestes obscurus, 503–511

N

Nealen, Paul M., see Filliater, Tamatha S.
Nearest-neighbor distance, 973–986
Negret, Alvaro J., see Stiles, F. Gary
Negro, Juan J., Alain Chastin and David M. Bird, Effects of short-term food deprivation on growth of hand-reared American Kestrels, 749–760
Neotropical migrant, 105–118
Neotropics, 341–353, 692–702, 863–877
Nest attentiveness, 162–169
  desertion, 1076–1083
  guarding, 162–169
  height, 812–816
  initiation, 422–432
  microhabitat, 1009–1019
  predation, 341–353, 761–768, 812–816, 1009–1019
  -site selection, 19–35, 761–768, 994–1002, 1003–1008, 1009–1019
Nesting ecology, 1095–1099
  success, 716–721, 761–768
  synchrony, 19–35
Nestling, 555–559
Nestling provisioning, 606–613
Neudorf, Diane L., and Spencer G. Sealy, Sunrise nest attentiveness in cowbird hosts, 162–169
Nidifugous chicks, 805–809
Niemi, Gerald J., see Blake, John G.
Nightjar, Anthony's, see *Caprimulgus anthonyi*
Noble, David G., see Gaston, Anthony J.
Nocturnal foraging, 734–738
Nonshivering thermogenesis, 208–211
Northern Great Plains, 1030–1036
Nuclear species, 105–118
Numenius tahitiensis, 316–330
Nutrient reserves, 422–432, 878–897
Nutrition, 46–51, 422–432, 878–897

O

Oklahoma, 512–544
Omao, see *Myadestes obscurus*
Omland, Kevin E., and Thomas W. Sherry, Parental care at nests of two age classes of male American Redstart: implications for female mate choice, 606–613
Ontario, 411–421
Operative temperature, 257–279
Oregon, 36–45
Oreomystis mana, 151–161
Oropendola, Montezuma, see *Psarocolius montezuma*
Otter, Ken, Laurene Ratcliffe, and Peter T. Boag, Extrapair paternity in the Black-capped Chickadee, 218–222
Otus asio, 485–493
Ovarian follicles, 11–18
Oviposition, 11–18, 119–126, 162–169, 555–559, 1109–1110
Ovulation, 11–18
Owl, Barn, see *Tyto alba*
  Spotted, see *Strix occidentalis*
  Tengmalm's, see *Aegolius funereus*
Owls, 485–493
Oxygen consumption, 280–294
Oxyura jamaicensis, 11–18, 878–897

P

Pacheco, José Fernando, see Whitney, Bret M.
Pacific Ocean, 331–340
Paedomorphosis, 433–446
Painton Award, 831–832
Painton, Harry R., 831–832
Palm-Tanager, Hispaniolan, see *Phaenicophilus palmarum*
Palomino, José Javier, see Soler, Manuel
Paradisaeidae, 552–555
Paraguay, 83–97
Parasitism, 162–169
Parental care, 606–613, 802–805, 809–812
Parrot, Thick-billed, see *Rhynchopsitta pachyrhyncha*
Parus atricapillus, 218–222, 638–646, 1113–1114

rufescens, 647–653
sclateri, 70–82
Passer domesticus, 214–217
Passeriformes, 170–177
Passerina, 769–782
Passerina leclancherii, 769–782
Patch use, 228–231
Paternity, 1055–1063
Paton, Peter W. C., Survival estimates for Snowy Plovers breeding at Great Salt Lake, Utah, 1106–1109
Penguin, Magellanic, see *Spheniscus magellanicus*
Pereyra, Maria E., see Morton, Martin L.
Perkins, Alison E. H., see Yarris, Gregory S.
Peru, 224–228
Petrel, White-chinned, see *Procellaria aequinoctialis*
Phainopepla nitens, 769–782
Phalacrocorax aristotelis, 600–605
Phalaenoptilus nuttallii, 208–211
Pheucticus melanocephalus, 626–630
Phoenicopterus ruber roseus, 809–812
Photography, 805–809
Phylogeny, 127–140, 1037–1054
Physiological costs, 1–10
Pica pica, 802–805
Pierotti, Raymond, and Cynthia Annett, Patterns of aggression in gulls: asymmetries and tactics in different social categories, 590–599
Piersma, Theunis, see Wiersma, Popko
Pintail, Northern, see *Anas acuta*
White-cheeked, see *Anas bahamensis*
Piper, Walter H., Courtship, copulation, nesting behavior and brood parasitism in the Venezuelan Stripe-backed Wren, 654–671
Pipilo erythrophtalmus, 190–196
Pipping, 280–294
Pipridae, 692–702
Pleistocene avifaunas, 577–589
Plover, Snowy, see *Charadrius alexandrinus*
Spur-winged, see *Vanellus spinosus*
Plumage, 769–782
color, 614–625, 626–630
Podiceps nigricollis, 19–35
Podicipediformes, 19–35
Polyandry, 218–222
Polygyny, 722–733, 1113–1114
Pooecetes gramineus, 739–748
Poorwill, Common, see *Phalaenoptilus nuttallii*
Population declines, 381–399
demography, 916–934
variability, 58–69
Populations, 381–399
Post-breeding, 36–45
Post-fledging dependence, 802–805
Poulin, Brigitte, Gaëtan Lefebvre, and Raymond McNeil, Diets of land birds from northeastern Venezuela, 354–367
Poulin, Brigitte, Gaëtan Lefebvre, and Raymond McNeil, Effect and Efficiency of tartar emetic in determining the diet of tropical land birds, 98–104
Powers, Donald R., and Timothy M. Conley, Field metabolic rate and food consumption of two sympatric hummingbird species in southeastern Arizona, 141–150
Powers, Donald R., and Todd McKee, The effect of food availability on time and energy expenditures of territorial and non-territorial hummingbirds, 1064–1075
Pravosudov, Vladimir V., see Grubb, Jr., Thomas C.
Pre-dawn laying, 162–169
Predation, 200–202
Premigratory fattening, 1020–1029
Prey availability, 341–353
Prieto, Felipe G., see Chavez-Ramirez, Felipe
Primary feather wear, 959–972
Procellaria aequinoctialis, 1111–1113
Progenesis, 433–446
Protein, 878–897
Prum, Richard O., Species status of the White-fronted Manakin, *Lepidothrix serena* (Pipridae), with comments on conservation biology, 692–702
Psarocolius montezuma, 722–733, 794–798
Psarocolius wagleri, 794–798
Pseudoleistes virescens, 716–721
Ptilochronology, 214–217
Pytte, Carolyn, and Millicent Sigler Ficken, Aerial display sounds of the Black-chinned Hummingbird, 1088–1091

R

Radio-telemetry, 447–454
Raikow, Robert J., Climbing adaptations in the hindlimb musculature of the woodcreepers (Dendrocolaptinae), 1103–1106
Ralph, C. John, and Steven G. Fancy, Demography and movements of the Omao (*Myadestes obscurus*), 503–511
Ralph, C. John, and Steven G. Fancy, Timing of breeding and molting in six species of Hawaiian honeycreepers, 151–161
Raptors, 447–454, 749–760
Rasmussen, Pamela C., A review of *Cormorants, Darters, and Pelicans of the World,* by Paul A. Johnsgard, 567–569
Ratcliffe, Laurene, see Otter, Ken
Raveendran, Lethika, see Hughes, Maryanne R.
Raven, Common, see *Corvus corax*
Reboreda, Juan C., see Mermoz, Myriam E.
Recruitment, 935–948
Recurvirostra americana, 178–189, 973–986
Redhead, see *Aythya americana*
Redmond, Roland L., see Marks, Jeffrey S.
Redstart, American, see *Setophaga ruticilla*
Regurgitation, 98–104
Repertoire, 190–196
Reproduction, 468–484, 739–748, 878–897, 916–934
Reproductive anatomy, 1099–1103
biology, 119–126
success, 994–1002
tactics, 400–410
Reynolds, Richard T., see Joy, Suzanne M.
Rhynchopsitta pachyrhyncha, 845–862
Ridgely, Robert S., see Robbins, Mark B.
see Hayes, Floyd E.
Ritchison, Gary, Paul H. Klatt, and David F. Westneat, Mate guarding and extra-pair paternity in Northern Cardinals, 1055–1063
Ritchison, Gary, see Klatt, Paul H.
Robbins, Mark B., Robert S. Ridgely, and Steven W.

Cardiff, Voice, plumage and natural history of Anthony's Nightjar (*Caprimulgus anthonyi*), 224–228
Robin, American, see *Turdus migratorius*
Rodriguez, Alejandro, see Donázar, José A.
Rolph, David N., see Sovern, Stan G.
Rompré, Ghislain, and Raymond McNeil, Seasonal changes in day and night foraging of Willets in northeastern Venezuela, 734–738
Roosting, 162–169, 257–279, 545–551
communal, 631–637
Rothstein, Stephen I., Brood parasitism and the Hamilton-Orians Hypothesis revisited, 1117–1118
Rothstein, Stephen I., see Burnell, Kris
Russell, Robert W., and Paul E. Lehman, Spring migration of Pacific Loons through the Southern California Bight: nearshore flights, seasonal timing and distribution at sea, 300–315
Russell, S. M., see Harris, M. P.

S

Sæther, Stein Are, John Atle Kålås, and Peder Fiske, Age determination of breeding shorebirds: quantification of feather wear in the lekking Great Snipe, 959–972
Saline acclimation, 295–299
Sandpiper, Semipalmated, see *Calidris pusilla*
White-rumped, see *Calidris fuscicollis*
Sauer, John R., A review of *Marked Individuals in the Study of Bird Population*, edited by J.-D. Lebreton and Ph. M. North, 571–572
Sawfly larvae, 647–653
Scaphidura oryzivora, 794–798
Scharf, Paul A., see Hayes, Floyd E.
Schaumburg, Kristin, see Heinrich, Bernd
Schmutz, Joel A., Age, habitat and tide effects on feeding activity of Emperor Geese during autumn migration, 46–51
Schnell, Gary D., see Grzybowski, Joseph A.
Scott, J. Michael, Harry R. Painton Award: thirty-two years of excellence, 1961–1993, 831–832
Scott, Thomas A., Irruptive dispersal of Black-shouldered Kites to a coastal island, 197–200
Screech-Owl, Eastern, see *Otus asio*
Seabirds, 300–315
Sealy, Spencer G., see Neudorf, Diane L.
Segura, Enrique T., see Tubaro, Pablo L.
Semi-precocial, 280–294
Serie, Jerome R., see Austin, Jane E.
Setophaga ruticilla, 606–613
Sex ratio, 684–691
Sexual advertising, 1–10
differences, 222–224, 987–993
dimorphism, 987–993
selection, 1–10
Shag, European, see *Phalacrocorax aristotelis*
Sheldon, B. C., and T. R. Birkhead, Reproductive anatomy of the Chaffinch in relation to sperm competition, 1099–1103
Sherry, Thomas W., see Omland, Kevin E.
Shiraki, Saiko, Characteristics of White-tailed Sea Eagle nest sites in Hokkaido, Japan, 1003–1008
Shortgrass prairie, 1009–1019
Shrike, Loggerhead, see *Lanius ludovicianus*
Siegel-Causey, Douglas, A review of *Birds of the Chukchi Penisula and Wrangel Island, Volume 2*, by L. A. Portenko, 569–570
Siegel-Causey, Douglas, A review of *Tetraonidae and Phasianidae of the USSR: Ecology and Morphology*, by M. A. Kuz'mina, 570–571
Sillett, T. Scott, Foraging ecology of Epiphyte-searching insectivorous birds in Costa Rica, 863–877
Silvereye, see *Zosterops lateralis*
Simpson, Kenneth L., see Conway, Courtney J.
Skagen, Susan K., and Fritz L. Knopf, Residency patterns of migrating sandpipers at a midcontinental stopover, 949–958
Slack, R. Douglas, see Chavez-Ramirez, Felipe
Smith, Christopher C., see Stapanian, Martin A.
Smith, James N. M., see Westcott, David A.
Smith, James N. M., and Peter Arcese, Brown-headed Cowbirds and an island population of Song Sparrows: a 16-year study, 916–934
Smith, Michael H., see McDonald, Mara A.
Snipe, Great, see *Gallinago media*
Snyder, Helen A., see Snyder, Noel F. R.
Snyder, Noel F. R., Susan E. Koenig, James Koschmann, Helen A. Snyder, and Terry B. Johnson, Thick-billed Parrot releases in Arizona, 845–862
Social behavior, 232–243
dominance, 614–625
organization, 672–683
Soler, Juan José, see Soler, Manuel
Soler, Manuel, José Javier Palomino, Juan Gabriel Martinez and Juan José Soler, Activity, survival, independence and migration of fledgling Great Spotted Cuckoos, 802–805
Solvent extraction, 783–790, 791–794
Song, 190–196, 817–830, 1084–1088
learning, 817–830
Sorenson, Lisa Guminski, Forced extra-pair copulation in the White-cheeked Pintail: male tactics and female responses, 400–410
South America, 83–97, 170–177
Southern California Bight, 300–315
Sovern, Stan G., Eric D. Forsman, Brian L. Biswell, David N. Rolph, and Margaret Taylor, Diurnal behavior of the Spotted Owl in Washington, 200–202
Sparrow, House, see *Passer domesticus*
Rufous-collared, see *Zonotrichia capensis*
Song, see *Melospiza melodia*
Vesper, see *Pooecetes gramineus*
White-crowned, see *Zonotrichia leucophrys*
Spatial association, 105–118
scale, 381–399
Species limits, 692–702
Sperm competition, 400–410, 1099–1103
storage, 1099–1103
Spheniscus magellanicus, 1076–1083
Spicebush, 791–794
Stapanian, Martin A., Christopher C. Smith, and Elmer J. Finck, Population variabilities of bird guilds in Kansas during fall and winter: weekly censuses versus Christmas bird counts, 58–69
Starvation, 749–760
Steadman, David W., Joaquin Arroyo-Cabrales, Eileen Johnson and A. Fabiola Guzman, New information on the Late Pleistocene birds from San Josecito Cave, Nuevo León, Mexico, 577–589

Sterna fuscata, 280–294
Stiles, F. Gary, and Alvaro J. Negret, The nonbreeding distribution of the Black Swift: a clue from Colombia and unsolved problems, 1091–1094
Stopovers, 300–315, 949–958
Streptopelia orientalis, 812–816
Strix occidentalis, 200–202
Strobeck, Curtis, see Murray, Brent W.
Sub-populations, 1030–1036
Subspecific variation, 703–715
Succession, 368–380
Sula dactylatra, 331–340
Survival, 503–511, 600–605, 898–908, 935–948, 1106–1109
  adult, 600–605
Survivorship, 631–637
Swanson, David L., see Cooper, Sheldon J.
Swift, Black, see *Cypseloides niger*
Syrinx, 127–140, 692–702
Systematics, 127–140

T

Tanager, Azure-rumped, see *Tangara cabanisi*
Tangara cabanisi, 1095–1099
Tartar emetic, 98–104
Taylor, Margaret, see Sovern, Stan G.
Tazik, David J., see Grzybowski, Joseph A.
Telemetry, 36–45, 447–454
Temperate/tropical transition, 577–589
Temperature, body, 280–294
Temple, Stanley A., A review of *Ecology and Conservation of Neotropical Migrant Land Birds,* edited by John M. Hagen III and David W. Johnston, 837–838
Tern, Sooty, see *Sterna fuscata*
Territoriality, 52–57, 141–150, 590–599, 1064–1075
Testes, 1099–1103
Testis mass, 626–630
Testosterone, 614–625
Texas, 512–544
Theristicus caudatus, 994–1002
Thermogenesis, cold-induced, 280–294
  nonshivering, 208–211
Thermoregulation, 208–211, 280–294, 638–646
Thompson, Christopher W., and Matthias Leu, Determining homology of molts and plumages to address evolutionary questions: a rejoinder regarding emberizid finches, 769–782
Thrush, Hawaiian, see *Phaeornis obscurus*
  Wood, see *Hylocichla mustelina*
Timing of breeding, 341–353, 503–511, 878–897, 898–908
  molting, 503–511
TOBEC, 783–790
Torpor, 208–211
Total body electrical conductivity, 783–790
Tourenq, Christophe, see Cézilly, Frank
Towhee, Rufous-sided, see *Pipilo erythrophthalmus*
Trachea, 552–555
Transoceanic migration, 316–330
Travaini, Alejandro, see Donázar, José A.
Trayhurn, Paul, see Brigham, R. Mark
Trochilidae, 141–150, 1064–1075, 1088–1091
Troglodytes aedon, 341–353
Tropical birds, 368–380
Tropical deciduous forest, 105–118
Tubaro, Pablo L., and Enrique T. Segura, Dialect differences in the song of *Zonotrichia capensis* in the Southern Pampas: a test of the Acoustic Adaptation Hypothesis, 1084–1088
Turdus migratorius, 494–502
Turtle-Dove, Rufous, see *Streptopelia orientalis*
Twedt, Daniel J., William J. Bleier, and George M. Linz, Geographic variation in Yellow-headed Blackbirds from the northern Great Plains, 1030–1036
Tyrannidae, 672–683
Tyto alba, 468–484

U

Uria lomvia, 935–948
Urine refluxing, 295–299
Utah, 468–484

V

Vanellus spinosus, 1109–1110
Vekasy, Mark S., see Marzluff, John M.
Venezuela, 98–104, 354–367, 734–738
Vestiaria coccinea, 151–161
Vickery, J. A., and M. De L. Brooke, The kleptoparasitic interactions between Great Frigatebirds and Masked Boobies on Henderson Island, South Pacific, 331–340
Vidal, Rosa María, Claudia Macías-Caballero, and Charles D. Duncan, The occurrence and ecology of the Golden-cheeked Warbler in the Highlands of Northern Chiapas, Mexico, 684–691
Vireo, 1037–1054
  atricapillus, 512–544
Vireo, Black-capped, see *Vireo atricapillus*
Vireolanius, 1037–1054
Vocal acquisitions, 817–830
  behavior, 485–493
  function, 703–715
  learning, 190–196
Vocalization, 70–82, 190–196, 224–228, 485–493, 552–555, 559–565, 692–702, 703–715, 817–830, 1088–1091
  female, 703–715

W

Wada, Takeshi, Effects of height of neighboring nests on nest predation in the Rufous Turtle-Dove (*Streptopelia orientalis*), 812–816
Walsberg, Glenn E., The use of wild birds in research, 1119–1120
Wanless, S., see Harris, M. P.
Warbler, Golden-cheeked, see *Dendroica chrysoparia*
Washington, 200–202
Water turnover, 141–150
Weather effects, 468–484
Weathers, Wesley W., see du Plessis, Morné A.
Webster, Michael S., The spatial and temporal distribution of breeding female Montezuma Oropendolas: effects on male mating strategies, 722–733
Webster, Michael S., Interspecific brood parasitism of Montezuma Oropendolas by Giant Cowbirds: parasitism or mutualism?, 794–798

Westcott, David A., and James N. M. Smith, Behavior and social organization during the breeding season in *Mionectes oleagineus*, a lekking flycatcher, 672–683
Westneat, David F., see Ritchison, Gary
Whitney, Bret M., and José Fernando Pacheco, Behavior and vocalizations of *Gyalophylax* and *Megaxenops* (Furnariidae), two little-known genera endemic to northeastern Brazil, 559–565
Whittow, G. Causey, see Mathiu, P. Mbaabu
Widowbird, Jackson's, see *Euplectes jacksoni*
Wiersma, Popko, and Theunis Piersma, Effects of microhabitat, flocking, climate and migratory goal on energy expenditure in the annual cycle of Red Knots, 257–279
Willet, see *Catoptrophorus semipalmatus*
Willson, Mary F., Fruit choices by captive American Robins, 494–502
Wing length, 555–559
Winter bird censuses, 58–69
Winter range, 684–691
With, Kimberly A., The hazards of nesting near shrubs for a grassland bird, the McCown's Longspur, 1009–1019
Woodcreepers, 1103–1106
Woodpecker, Acorn, see *Melanerpes formicivorus*
Wren, House, see *Troglodytes aedon*
Stripe-backed, see *Campylorhynchus nuchalis*

X

Xanthocephalus xanthocephalus, 799–801, 1030–1036

Y

Yarris, Gregory S., M. Robert McLandress, and Alison E. H. Perkins, Molt migration of postbreeding female Mallards from Suisun Marsh, California, 36–45
Yezerinac, Stephen M., and Kevin W. Dufour, On testing the Hamilton-Orians Hypothesis for the origin of brood parasitism, 1115–1116
Yogev, Akiva, and Yoram Yom-Tov, The Spur-winged Plover (*Vanellus spinosus*) is a determinate egg layer, 1109–1110
Yom-Tov, Yoram, Miguel I. Christie, and Gustavo J. Iglesias, Clutch size in passerines of southern South America, 170–177
Yom-Tov, Yoram, see Yogev, Akiva
Yorio, Pablo, and P. Dee Boersma, Causes of nest desertion during incubation in the Magellanic Penguin (*Spheniscus magellanicus*), 1076–1083
Yosef, Reuven, Sex-related differences in distraction-displays by Florida Sandhill Cranes, 222–224
Young, Bruce E., The effects of food, nest predation and weather on the timing of breeding in tropical House Wrens, 341–353

Z

Zonotrichia capensis, 1084–1088
leucophrys, 119–126, 1020–1029
Zosterops lateralis, 211–214